

REMARKS

Applicants respectfully requests consideration of the subject application as amended herein. This Amendment is submitted in response to the Office Action mailed on May 3, 2007. Claims 1-30 are rejected. Claims 1, 15, 26, 29 and 30 have been amended. No new matter has been added.

The Examiner objected to claim 26 for a minor informality. The claim has been amended to remove the informality.

35 U.S.C. §101

Claims 1-14, 23-25 and 30 are rejected under 35 U.S.C. §101 because the claimed invention is directed to non-statutory subject matter. The specification and claim 1 have been amended to direct the pending claims to statutory subject matter.

35 U.S.C. §102

Claims 1-30 are rejected under 35 U.S.C. § 102(b) as being anticipated by Shih, et al., ("A Design/Constraint Model To Capture Design Intent," hereinafter "Shih"). As discussed below, the pending claims are patentable over the above reference.

Shih discloses a design model that captures design intent. The design model enables downstream users to modify or regenerate the design from explicit information in an exchange file. The information provided in the exchange file is generated by the sender or upstream designer. Additional requirements at later stages can feedback to the earlier designers to refine the design. Constraints in predefined or free form formulations capture the logical inter-relationship as well as inter-dependence of design/shape data. The design intent is an accumulation of these interactions of design/shape and constraints.

Contrary to the presently claimed invention, Shih does not teach or suggest determining,

based on behavioral parameters associated with each design feature of an object, a correspondence between each design feature and one or more body partitions, assigning a contributing volume to each of these body partitions, and computing the digital model of the object using contributing volumes of each design feature of the object. The above features are included in the following language of claim 1:

... determining, based on the behavioral parameters, a correspondence between each design feature and one or more body partitions within a predefined set of body partitions composing a body of the object;

assigning a contributing volume to each of the one or more body partitions; and computing the digital model of the object using contributing volumes of each design feature of the object to create the digital model of the object.

Similar language is also included in claims 15, 29 and 30. Accordingly, the present invention, as claimed in claims 1, 15, 29 and 30, and their corresponding dependent claims, is not anticipated by Shih.

Applicant respectfully requests the withdrawal of the rejection under 35 U.S.C. § 102(b) and submits that the pending claims are in condition for allowance.

If the Examiner determines that prompt allowance of these claims could be facilitated by a telephone conference, the Examiner is invited to contact Marina Portnova at (408) 720-8300.

Deposit Account Authorization

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due. Furthermore, if an extension is required, then Applicant hereby requests such extension.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR
& ZAFMAN LLP

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Marina Portnova
Registration No. 45,750

1279 Oakmead Parkway
Sunnyvale, CA 94085-4040
(408) 720-8300